



Barley Plant Growth Regulator

Trial ID: 2022-BPGR08 — R.M. of Montcalm

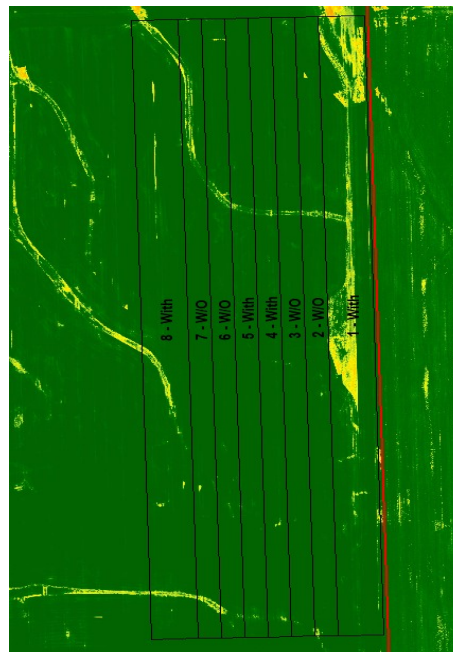
Objective: The purpose of this project is to quantify the agronomic and economic impacts of using a plant growth regulator for plant height, lodging, yield and quality on barley.

Summary: There was a significant reduction in plant height between the treatments. There was a significant yield difference between the treatments. As a result, there was an increase in profit ability using a plant growth regulator.

Trial Information

Treatment	Moddus
Application Timing	Z32—July 13
Application Rate	30 ac/jug
Previous Crop	Soybeans
Tillage	Conventional
Seeding Equipment	42' Disc Drill
Seeding Date	June 20
Seeding Rate	140 lbs/ac
Variety	AAC Synergy
Row Spacing	7.5"
Harvest Date	October 09

NDVI Imagery August 03



Barley Response

	Plant Height (cm)	Lodging Severity (1-9)	Protein (%)	Grade
Treated	67 ^B	1	10.8	2.0
Untreated	85 ^A	1	11.4	2.0

Precipitation[†] (mm)

	May	June	July	Aug	Total
Rainfall	113	58	66	30	267
Normal	56	73	77	43	249
% Normal	201%	79%	86%	69%	107%

[†]Growing season precipitation (mm) - May 01—Aug 15

Overall Yield & Economics

	Mean (bu/ac)	Cost [†]	Change in Profit/ac ^{††}
Treated	115.5 ^A	\$14/ac	+\$64/ac
Untreated	105.8 ^B		\$0/ac
P-Value	0.0118	Economics: There was an increase in profit of \$64/acre over the untreated check strips from using a plant growth regulator.	
CV	1.18%		
Significance	Yes		

[†]Estimated cost; represents product only, does not include application cost.

^{††}A price of \$8.00/bushel (Nov 2022) was used for the economic calculation.



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**MANITOBA
CROP
ALLIANCE**

Phone: 204-745-6661
Website: mbcropalliance.ca
Email: hello@mbcropalliance.ca